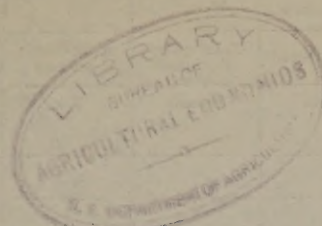


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AGRICULTURAL CONSERVATION SURVEY
NORTHEAST REGION

STATE _____ COUNTY _____ WORK SHEET No. _____ FARM LOCATION _____ MILES FROM _____ ON _____ ROAD _____
NAME _____ POST-OFFICE ADDRESS _____ DATE _____

INSTRUCTIONS

Form NER-109 is to be filled out by check supervisors at the time of, and for those farms on which, a recheck of the supervisor's performance report is made.

The predominant activity of the farm, i. e., dairying, cash grain, fruit, etc., will be used in classifying farms as to type.

Data are to be gathered by years, for the period 1934-37, inclusive. All figures for acres and tons will be carried to tenths.

Column 2—Acres Seeded.—Enter in this space the total number of acres seeded to the crop or mixture.

Column 3—Legume Seed per Acre.—For sections A and B enter the actual weight, in pounds per seeded acre, of the legume seed. In the case of a mixture, the entry should be the actual weight-per-acre of the legume seed and not the weight-per-acre of the entire mixture. For instance, if a seeding was made from a grass and legume mixture containing 45 percent by weight of alfalfa seed, the entry would be (0.45 times the entire weight of the mixture seeded) divided by the total number of acres on which the seeding was made, as entered in column 2. For section C, enter the actual weight, in pounds per seeded acre, of pasture mixture seeded.

Column 4—Application per Acre, of Limestone Equivalent.—Enter the weight, in tons per acre, of limestone or limestone equivalent, used in connection with seedings. By "limestone equivalent" is meant the quantity of limestone which is the equivalent of a quantity of some other material or materials used and which contains the same quantities, by weight, of calcium or magnesium oxide.

Where a treatment of varying proportion was carried out on several fields, it will be necessary to figure the weighted average application per acre in arriving at the entry for column 4. For example, suppose in 1936 a producer had three fields on which he applied ground limestone prior to seeding alfalfa. The field acreages, applications of limestone, and computation of the weighted average are as follows:

Field 1	4 acres	@	2,000 pounds per acre	Total	8,000 pounds
Field 2	6 acres	@	3,000 pounds per acre	Total	18,000 pounds
Field 3	2 acres	@	4,000 pounds per acre	Total	8,000 pounds
Total 3 fields:	12 acres				34,000 pounds

Average application per acre = $34,000 \div 12 = 2,833$ pounds = 1.4 tons

Column 5—Acres Treated.—The entry for this column will be the total acreage on which the treatment entered in column 4 was made.

Column 6—Total Quantity Used.—Enter the total quantity of limestone, in tons, used on the acreage reported in column 5.

Entries for superphosphate, potash, nitrogen, and stable manure will be made in the same general way as the entries for limestone.

In cases where commercial fertilizer mixtures are used, it will be necessary to compute the actual weight of each ingredient included in the mixture before the proper entries can be made in sections A, B, C, D, and E. This can be done by use of the "mixture ratio" commonly employed to designate by weight the proportionate parts of nitrogen, phosphate, and potash, respectively, contained in the mixture. To illustrate, a "6-8-4 mixture" indicates there are by weight 6 parts nitrogen, 8 parts phosphate, and 4 parts potash in the mixture of 18 parts. Therefore, to get the weight of nitrogen in the mixture, multiply the fractional part of the mixture, which is nitrogen (in this case $6 \div 18 = \frac{1}{3}$), by the total weight of the mixture. Thus, there would be 33.3 pounds of nitrogen in a 100-pound sack of a 6-8-4 mixture.

Column 19—Results of Seeding (good, fair, poor, etc.).—In this space enter the producer's opinion of the results of seeding.

Section (F)—Cover Crops.—Enter in column 2 the total acreage of cover crops seeded. "Cover Crops" shall be deemed to include the sum of all annuals and sweet clover, seeded in the summer and fall. In column 3 enter the name of the cover crop seeded.

Section (G)—Mulch.—List the number of tons of mulching material used in orchards, and on vegetables, including strawberries. Entries in these columns will include only materials grown or secured from sources other than the area being mulched.

Section (H)—Green Manure Crops.—In these columns enter the total acreage seeded to green manure crops, and the name of such crop.

[OVER]

(A) ALFALFA AND MIXTURES

YEAR	ACRES SEEDED	LEGUME SEED PER ACRE	LIMESTONE EQUIVALENT			SUPERPHOSPHATE			POTASH			NITROGEN			STABLE MANURE			RESULTS OF SEEDING
			Application per acre	Acres treated	Total quan- tity used	Application per acre	Acres treated	Total quan- tity used	Application per acre	Acres treated	Total quan- tity used	Application per acre	Acres treated	Total quan- tity used	Application per acre	Acres treated	Total quan- tity used	
	Acres	Pounds	Tons	Acres	Tons	Pounds	Acres	Pounds	Pounds	Acres	Pounds	Pounds	Acres	Pounds	Tons	Acres	Tons	Good—Fair—Poor
1934																		
1935																		
1936																		
1937																		

(B) CLOVER AND CLOVER MIXTURES SEEDED

1934																		
1935																		
1936																		
1937																		

(C) PASTURE MIXTURE SEEDED

1934																		
1935																		
1936																		
1937																		

(D) PASTURES IMPROVED, OTHER THAN AT SEEDING

1934	x x x x	x x x x																x x x x x x x
1935	x x x x	x x x x																x x x x x x x
1936	x x x x	x x x x																x x x x x x x
1937	x x x x	x x x x																x x x x x x x

(E) HAY LAND IMPROVED, OTHER THAN AT SEEDING

1934	x x x x	x x x x																x x x x x x x
1935	x x x x	x x x x																x x x x x x x
1936	x x x x	x x x x																x x x x x x x
1937	x x x x	x x x x																x x x x x x x

(F) COVER CROPS

(G) MULCH

(H) GREEN MANURE CROPS

YEAR	ACRES SEEDED	KIND	TONS USED ON—		ACRES TURNED UNDER	KIND	Type of farming _____ Total acres farm land _____ Total acres cropland _____ State check supervisor's name _____
			Orchards	Vegetables including strawberries			
1934							
1935							
1936							
1937							